IN THE SPECIFICATION

Please amend the Specification as follows:

Page 5, line 26 - Page 6, line 22, rewrite this paragraph as follows:

SO2 is the ratio of the oxyhaemoglobin concentration [HbO2] to the total concentration of haemoglobin ([HbO2] + [Hb], where [Hb] is haemoglobin concentration) express as a percentage.

$$SO_2 = \frac{[HbO_2] \times 100}{[HbO_2] + [Hb]}$$

SaO2 is arterial oxygen saturation.

The reflected absorptions (A) at six wavelengths (500, 528, 550, 560, 572 and 586 nm) are used to calculate two parameters. HbI and OXI:

HbI =
$$|A_{528} - A_{500}|/28 + |A_{550} - A_{528}|/22 + |A_{572} - A_{550}|/22 + |A_{586} - A_{572}|/14$$

OXI =
$$(|A_{560} - A_{550}|/10 + |A_{572} - A_{560}|/12)/HbI$$

SO2 is calculated from the formula:

$$-50_2 - 100 - (OXI - OXI_0) / (OXI_{100} - OXI_0)$$

 $SO_2 = 100 * (OXI-OXI_0)/(OXI_{100}-OXI_0)$

Where OXI_0 and OXI_{100} are empirically determined values for OXI at SO_2 values of 0% and 100% in skin. HbI is the haemoglobin index, such that:

HbI x k = [Hb]

where k is a constant.